

REMARKS

Claims 1-18 and 20 are pending in the application. It is gratefully acknowledged that the Examiner has allowed Claims 16-18. It is also gratefully acknowledged that Claim 8 has been objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form to include all of the limitations of the base claim and any intervening claims. We are also pleased to inform you that Claim 20 was found to also contain allowable subject matter. The Examiner objected to Claim 20 based on informalities. The Examiner has rejected Claim 1 under 35 U.S.C. §103(a) as being unpatentable over Chalmers (U.S. Patent 5,375,146) in view of Yasuda (U.S. Patent 6,181,740), and further in view of Poklemba (U.S. patent 5,696796). The Examiner has rejected Claim 5 under 35 U.S.C. §103(a) as being unpatentable over Chalmers in view of Poklemba. The Examiner has rejected Claims 2-4 and 9-15 under 35 U.S.C. §103(a) as being unpatentable over Chalmers in view of Yasuda, further in view of Poklemba, and further in view of Ostman (U.S. Patent 6,061,385). The Examiner has rejected Claims 6 and 7 under 35 U.S.C. §103(a) as being unpatentable over Chalmers in view of Poklemba, and further in view of Ostman.

Regarding the objection to Claim 20, the Examiner requests that the claim include a definition for “t” and “f₁(t)”, and that the claim should be amended to have the equation match Equation (4) in the specification. Claim 20 has been amended as set forth herein.

Based on at least the foregoing withdrawal of the objection to Claim 20 is respectfully requested.

Regarding the rejections of independent Claim 1 under §103(a), the Examiner states that Chalmers in view of Yasuda and further in view of Poklemba renders the claim obvious. Chalmers discloses a digital frequency conversion and tuning scheme for microwave radio receivers and transmitters; Yasuda discloses a sampling system; and, Poklemba discloses a continuously variable IF sampling method for digital data transmission.

In the allowance of Claim 16, the Examiner states that none of the prior art teaches or discloses the recitation of a first mixer for converting a signal to a first IF signal and a second

mixer for converting the first IF signal to a second IF signal, wherein the second mixer comprises a selector for selecting and inverting signals from two decimation filters for suppressing an unwanted signal of the input signals. Claim 1 has been amended to recite these features.

Based on at least the foregoing, withdrawal of the rejection to Claim 1 is respectfully requested.

Regarding the rejections of independent Claim 5 under §103(a), the Examiner states that Chalmers in view of Poklemba renders the claim obvious.

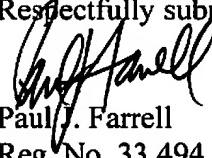
Claim 5 has been amended in a fashion similar to the amendments of Claim 1.

Based on at least the foregoing, withdrawal of the rejection of independent Claim 5, under §103(a) is respectfully requested.

Independent Claims 1 and 5 are believed to be in condition for allowance. Without conceding the patentability per se of dependent Claims 2-4 and 6-15, these are likewise believed to be allowable by virtue of their dependence on their respective amended independent claims. Accordingly, reconsideration and withdrawal of the rejections of dependent Claims 2-4 and 6-15 is respectfully requested.

Accordingly, all of the claims pending in the Application, namely, Claims 1-18 and 20, are believed to be in condition for allowance. Should the Examiner believe that a telephone conference or personal interview would facilitate resolution of any remaining matters, the Examiner may contact Applicant's attorney at the number given below.

Respectfully submitted,


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